

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

ATTORNEY DOCKET NO.	CONFIRMATION NO.		
IRIS.P0001	2926		
EXAM	INER		
KING, BRADLEY T			
ART UNIT	PAPER NUMBER		
3683			
	IRIS.P0001 EXAM KING, BR. ART UNIT		

DATE MAILED: 03/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		10/705,213	KNOLLENBERG ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Bradley T. King	3683		
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address		
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS IN THE MAILING DANS IN THE MAY BE AVAILABLE OF THE MAILING DANS IN (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 29 Au	ugust 2005.	·		
2a)⊠	This action is FINAL . 2b) This	action is non-final.			
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.		
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-13 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	ion Papers		•		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority (ınder 35 U.S.C. § 119				
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received in the contraction of the contraction of the contraction is a second contraction of the contr	on No ed in this National Stage		
Attachmen		_			
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 10-05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

DETAILED ACTION

Information Disclosure Statement

Several of the documents listed on the IDS of 10/19/2005 are incorrectly identified as Foreign patent documents. The US references should be listed as such and the translation should be listed as "Other Documents".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2-3, 7 and 9-13 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 00/55666.

WO 00/55666 discloses all the limitations of the instant claims including; an actuator body 108 connected with a suspension system; and the suspension system connected with the substrate 102, the suspension system comprising: a set of one or more flexures 100, each flexure connecting the actuator body with the substrate 102; and a set of one or more torsional elements 112 (note each leg of 112 is considered a separate torsional element), wherein each torsional element connects a corresponding flexure with the actuator body and provides strain relief between the corresponding flexure and the actuator body, each torsional element having a length being greater that

Art Unit: 3683

the width of the torsional element, wherein the width of the torsional element is less than the width of the corresponding flexure. See figure 12.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/55666.

Regarding claims 4-6, WO 00/55666 discloses all the limitations of the instant claims with exception to the explicit dimensions. WO 00/55666 clearly appreciates the effect of the reduced dimensional area of 112. It would have been obvious to one of ordinary skill in the art at the time the invention was made to determine the optimum dimensions through routine experimentation to provide the desired flexions, while maintaining the necessary strength for proper operation. Also note In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Regarding claim 8, WO 00/55666 discloses all the limitations of the instant claims with exception to the torsion element being a serpentine form. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a

serpentine shaped torsion element in the device of WO 00/55666 as an obvious design variant. Also note applicant's response of 3/1/2005 states that subspecies A and B are

not patentably distinct.

Response to Arguments

Applicant's arguments filed 8/29/2005 have been fully considered but they are not persuasive. Regarding WO 00/55666, note the modified rejections above. It is maintained that one leg of the area 112 is readable on the torsional element of claim 2. Note one leg of 112 (the lead line of reference number 112 points to a cut out portion) has a width smaller than that of flexure 100. The length of one leg of 112 is clearly greater than the width as well.

Regarding claim 9, note that the weakening of 112 necessarily results in less angle of twist per unit moment value than the anchor end by virtue of the differing cross sectional areas. It is maintained that the rejections are proper.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

Art Unit: 3683

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley T. King whose telephone number is (571) 272-7117. The examiner can normally be reached on 11:00-7:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan can be reached on (571) 272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BTK